ELSEVIER

Comput. Methods Appl. Mech. Engrg. 163 (1998) 397–398

Computer methods in applied mechanics and engineering

Author Index of Volume 163

Anifantis, N.K. see Katsareas, D.E. 261–270
Aravas, N. see Ramaswamy, S. 11– 32
Aravas, N. see Ramaswamy, S. 33– 53
Argyris, J., Litvin, F.L., Peng, A. and Stadtfeld, H.J. Axes of meshing and their application in theory of gearing 293–310

Baumal, A.E., McPhee, J.J. and Calamai, P.H. Application of genetic algorithms to the design optimization of an active vehicle suspension system 87– 94
Begg, D.W. see Liu, X. 311–322
Bishop, S.R. see Galvanetto, U. 373–382

Calamai, P.H. see Baumal, A.E. 87– 94
Cherfils, L. A parallel and adaptive continuation method for semilinear bifurcation problems 247–259
Coupez, T. see Pichelin, E. 359–371

De Mulder, T. The role of bulk viscosity in stabilized finite element formulations for incompressible flow: A review 1– 10
Degand, C. see Farhat, C. 231–245
Díez, P., Egozcue, J.J. and Huerta, A. A posteriori error estimation for standard finite element analysis 141–158
Duvaut, G. see Ghouali, M.A. 55– 70

Egozcue, J.J. see Díez, P. 141–158

Farhat, C., Degand, C., Koobus, B. and Lesoinne, M. Torsional springs for two-dimensional dynamic unstructured fluid meshes 231–245
Fischer, P.F. Projection techniques for iterative solution of $A\underline{x} = \underline{b}$ with successive right-hand sides 193–204

Galvanetto, U. and Bishop, S.R. Computational techniques for nonlinear dynamics in multiple friction oscillators 373–382
Ghouali, M.A., Duvaut, G., Ortola, S. and Oster, A. Local analytical design sensitivity analysis of the forging problem using FEM 55– 70
Günther, F.C. and Liu, W.K. Implementation of boundary conditions for meshless methods 205–230

Harari, I. and Shohet, Z. On non-reflecting boundary conditions in unbounded elastic solids 123–139
Haug, E.J. and Pan, W. Optimal inertia lumping from modal mass matrices for structural dynamics 171–191
Hauke, G. A symmetric formulation for computing transient shallow water flows 111–122
Holzleitner, L. Improvements on objective and constraint functions in domain optimization 271–291
Huerta, A. see Díez, P. 141–158

Kanarios, V.I. see Katsareas, D.E. 261–270
Katsareas, D.E., Kanarios, V.I. and Anifantis, N.K. Performance of traction-singular boundary elements in analysing fracture process in transient quasistatic environments 261–270
Koobus, B. see Farhat, C. 231–245

Lesoinne, M. see Farhat, C. 231–245
Litvin, F.L. see Argyris, J. 293–310
Liu, W.K. see Günther, F.C. 205–230
Liu, X. and Begg, D.W. Sensitivity analysis of smart structures 311–322
Löhner, R. Renumbering strategies for unstructured-grid solvers operating on shared-memory, cache-based parallel machines 95–109
Lovadina, C. Analysis of a mixed finite element method for the Reissner–Mindlin plate problems 71– 85
Lu, J. see Ye, Z. 383–394

McPhee, J.J. see Baumal, A.E. 87– 94

Oden, J.T. and Zohdi, T.I. Erratum to "Analysis and adaptive modeling of highly heterogeneous elastic structures" [Comput. Methods Appl. Mech. Engrg. 148 (1997) 367–391] 395–396
Ortola, S. see Ghouali, M.A. 55– 70
Oster, A. see Ghouali, M.A. 55– 70

Pan, W. see Haug, E.J. 171–191
Peng, A. see Argyris, J. 293–310
Pichelin, E. and Coupez, T. Finite element solution of the 3D mold filling problem for viscous incompressible fluid 359–371

Quarteroni, A., Tagliani, A. and Zampieri, E. Generalized Galerkin approximations of elastic waves with absorbing boundary conditions 323–341

Ramaswamy, S. and Aravas, N. Finite element implementation of gradient plasticity models. Part I: Gradient-dependent yield functions 11– 32
Ramaswamy, S. and Aravas, N. Finite element implementation of gradient plasticity models. Part II: Gradient-dependent evolution equations 33– 53

Shohet, Z. see Harari, I. 123–139
Singer, I. and Turkel, E. High-order finite difference methods for the Helmholtz equation 343–358
Stadtfeld, H.J. see Argyris, J. 293–310

Tagliani, A. see Quarteroni, A. 323–341
Turkel, E. see Singer, I. 343–358

Ye, Z. and Lu, J. Iterative analytical solution of nonlinear analysis of shallow spherical shell with computer algebra systems—MapleV 383–394

Zampieri, E. see Quarteroni, A. 323–341
Zhang, Z. and Zhu, J.Z. Analysis of the superconvergent patch recovery technique and a posteriori error estimator in the finite element method (II) 159–170
Zhu, J.Z. see Zhang, Z. 159–170
Zohdi, T.I. see Oden, J.T. 395–396

ELSEVIER

Comput. Methods Appl. Mech. Engrg. 163 (1998) 399–402

Computer methods in applied mechanics and engineering

Subject Index of Volume 163

Boundary element methods

Performance of traction-singular boundary elements in analysing fracture process in transient quasistatic environments, D.E. Katsareas, V.I. Kanarios and N.K. Anifantis 261–270

Iterative analytical solution of nonlinear analysis of shallow spherical shell with computer algebra systems—MapleV, Z. Ye and J. Lu 383–394

Dynamics

Application of genetic algorithms to the design optimization of an active vehicle suspension system, A.E. Baumal, J.J. McPhee and P.H. Calamai 87– 94

Optimal inertia lumping from modal mass matrices for structural dynamics, E.J. Haug and W. Pan 171–191

Computational techniques for nonlinear dynamics in multiple friction oscillators, U. Galvanetto and S.R. Bishop 373–382

Elasticity

On non-reflecting boundary conditions in unbounded elastic solids, I. Harari and Z. Shohet 123–139

Torsional springs for two-dimensional dynamic unstructured fluid meshes, C. Farhat, C. Degand, B. Koobus and M. Lesoinne 231–245

Improvements on objective and constraint functions in domain optimization, L. Holzleitner 271–291

Finite difference methods

Local analytical design sensitivity analysis of the forging problem using FEM, M.A. Ghouali, G. Duvaut, S. Ortola and A. Oster 55– 70

Finite element and matrix methods

The role of bulk viscosity in stabilized finite element formulations for incompressible flow: A review, T. De Mulder 1– 10

Finite element implementation of gradient plasticity models. Part I: Gradient-dependent yield functions, S. Ramaswamy and N. Aravas 11– 32

Finite element implementation of gradient plasticity models. Part II: Gradient-dependent evolution equations, S. Ramaswamy and N. Aravas 33– 53

Analysis of a mixed finite element method for the Reissner–Mindlin plate problems, C. Lovadina 71– 85

Renumbering strategies for unstructured-grid solvers operating on shared-memory, cache-based parallel machines, R. Löhner 95–109

A symmetric formulation for computing transient shallow water flows, G. Hauke 111–122

On non-reflecting boundary conditions in unbounded elastic solids, I. Harari and Z. Shohet 123–139

A posteriori error estimation for standard finite element analysis, P. Díez, J.J. Egozcue and A. Huerta 141–158

Analysis of the superconvergent patch recovery technique and a posteriori error estimator in the finite element method (II), Z. Zhang and J.Z. Zhu 159–170

Optimal inertia lumping from modal mass matrices for structural dynamics, E.J. Haug and W. Pan 171–191
Implementation of boundary conditions for meshless methods, F.C. Günther and W.K. Liu 205–230
Torsional springs for two-dimensional dynamic unstructured fluid meshes, C. Farhat, C. Degand, B. Koobus and M. Lesoinne 231–245
A parallel and adaptive continuation method for semilinear bifurcation problems, L. Cherfils 247–259
Improvements on objective and constraint functions in domain optimization, L. Holzleitner 271–291
Finite element solution of the 3D mold filling problem for viscous incompressible fluid, E. Pichelin and T. Coupez 359–371

Fluid mechanics
The role of bulk viscosity in stabilized finite element formulations for incompressible flow: A review, T. De Mulder 1– 10
Renumbering strategies for unstructured-grid solvers operating on shared-memory, cache-based parallel machines, R. Löhner 95–109
A symmetric formulation for computing transient shallow water flows, G. Hauke 111–122
Projection techniques for iterative solution of $A\underline{x} = \underline{b}$ with successive right-hand sides, P.F. Fischer 193–204
Implementation of boundary conditions for meshless methods, F.C. Günther and W.K. Liu 205–230
Torsional springs for two-dimensional dynamic unstructured fluid meshes, C. Farhat, C. Degand, B. Koobus and M. Lesoinne 231–245
Finite element solution of the 3D mold filling problem for viscous incompressible fluid, E. Pichelin and T. Coupez 359–371

Fracture mechanics
Local analytical design sensitivity analysis of the forging problem using FEM, M.A. Ghouali, G. Duvaut, S. Ortola and A. Oster 55– 70
Performance of traction-singular boundary elements in analysing fracture process in transient quasistatic environments, D.E. Katsareas, V.I. Kanarios and N.K. Anifantis 261–270

General Rayleigh–Ritz and Galerkin techniques
A symmetric formulation for computing transient shallow water flows, G. Hauke 111–122
Implementation of boundary conditions for meshless methods, F.C. Günther and W.K. Liu 205–230

Incompressible and near incompressible media
Projection techniques for iterative solution of $A\underline{x} = \underline{b}$ with successive right-hand sides, P.F. Fischer 193–204
Finite element solution of the 3D mold filling problem for viscous incompressible fluid, E. Pichelin and T. Coupez 359–371

Kinematics
Axes of meshing and their application in theory of gearing, J. Argyris, F.L. Litvin, A. Peng and H.J. Stadtfeld 293–310

Limit solutions
Generalized Galerkin approximations of elastic waves with absorbing boundary conditions, A. Quarteroni, A. Tagliani and E. Zampieri 323–341
High-order finite difference methods for the Helmholtz equation, I. Singer and E. Turkel 343–358

Miscellaneous topics
Renumbering strategies for unstructured-grid solvers operating on shared-memory, cache-based parallel machines, R. Löhner 95–109

Modern computer architecture
Renumbering strategies for unstructured-grid solvers operating on shared-memory, cache-based parallel machines, R. Löhner 95–109

Nonlinear dynamics of systems
Computational techniques for nonlinear dynamics in multiple friction oscillators, U. Galvanetto and S.R. Bishop 373–382

Nonlinear mechanics
Finite element implementation of gradient plasticity models. Part I: Gradient-dependent yield functions, S. Ramaswamy and N. Aravas 11– 32
Finite element implementation of gradient plasticity models. Part II: Gradient-dependent evolution equations, S. Ramaswamy and N. Aravas 33– 53
Implementation of boundary conditions for meshless methods, F.C. Günther and W.K. Liu 205–230

Numerical solution procedures
The role of bulk viscosity in stabilized finite element formulations for incompressible flow: A review, T. De Mulder 1– 10
Local analytical design sensitivity analysis of the forging problem using FEM, M.A. Ghouali, G. Duvaut, S. Ortola and A. Oster 55– 70
Analysis of a mixed finite element method for the Reissner–Mindlin plate problems, C. Lovadina 71– 85
Application of genetic algorithms to the design optimization of an active vehicle suspension system, A.E. Baumal, J.J. McPhee and P.H. Calamai 87– 94
Renumbering strategies for unstructured-grid solvers operating on shared-memory, cache-based parallel machines, R. Löhner 95–109
On non-reflecting boundary conditions in unbounded elastic solids, I. Harari and Z. Shohet 123–139
A posteriori error estimation for standard finite element analysis, P. Díez, J.J. Egozcue and A. Huerta 141–158
Analysis of the superconvergent patch recovery technique and a posteriori error estimator in the finite element method (II), Z. Zhang and J.Z. Zhu 159–170
Optimal inertia lumping from modal mass matrices for structural dynamics, E.J. Haug and W. Pan 171–191
Projection techniques for iterative solution of $A\underline{x} = \underline{b}$ with successive right-hand sides, P.F. Fischer 193–204
Implementation of boundary conditions for meshless methods, F.C. Günther and W.K. Liu 205–230
Finite element solution of the 3D mold filling problem for viscous incompressible fluid, E. Pichelin and T. Coupez 359–371
Computational techniques for nonlinear dynamics in multiple friction oscillators, U. Galvanetto and S.R. Bishop 373–382

Optimization
Application of genetic algorithms to the design optimization of an active vehicle suspension system, A.E. Baumal, J.J. McPhee and P.H. Calamai 87– 94
Optimal inertia lumping from modal mass matrices for structural dynamics, E.J. Haug and W. Pan 171–191

Optimization and design of structures
Improvements on objective and constraint functions in domain optimization, L. Holzleitner 271–291

Plasticity
Finite element implementation of gradient plasticity models. Part I: Gradient-dependent yield functions, S. Ramaswamy and N. Aravas 11– 32

Finite element implementation of gradient plasticity models. Part II: Gradient-dependent evolution equations, S. Ramaswamy and N. Aravas 33–53
Sensitivity analysis of smart structures, X. Liu and D.W. Begg 311–322
High-order finite difference methods for the Helmholtz equation, I. Singer and E. Turkel 343–358

Problems in physics
On non-reflecting boundary conditions in unbounded elastic solids, I. Harari and Z. Shohet 123–139

Shells and plates
Analysis of a mixed finite element method for the Reissner–Mindlin plate problems, C. Lovadina 71–85

Solutions of ordinary and partial differential equations
A symmetric formulation for computing transient shallow water flows, G. Hauke 111–122
On non-reflecting boundary conditions in unbounded elastic solids, I. Harari and Z. Shohet 123–139
A parallel and adaptive continuation method for semilinear bifurcation problems, L. Cherfils 247–259

Structural mechanics
Analysis of a mixed finite element method for the Reissner–Mindlin plate problems, C. Lovadina 71–85
Application of genetic algorithms to the design optimization of an active vehicle suspension system, A.E. Baumal, J.J. McPhee and P.H. Calamai 87–94
Optimal inertia lumping from modal mass matrices for structural dynamics, E.J. Haug and W. Pan 171–191
Torsional springs for two-dimensional dynamic unstructured fluid meshes, C. Farhat, C. Degand, B. Koobus and M. Lesoinne 231–245
Improvements on objective and constraint functions in domain optimization, L. Holzleitner 271–291

Systems of linear and nonlinear simultaneous equations
Projection techniques for iterative solution of $A\underline{x} = \underline{b}$ with successive right-hand sides, P.F. Fischer 193–204

Viscoelastic and viscoplastic media
Finite element solution of the 3D mold filling problem for viscous incompressible fluid, E. Pichelin and T. Coupez 359–371

Viscous flow
The role of bulk viscosity in stabilized finite element formulations for incompressible flow: A review, T. De Mulder 1–10
Finite element solution of the 3D mold filling problem for viscous incompressible fluid, E. Pichelin and T. Coupez 359–371